

FIG. 1

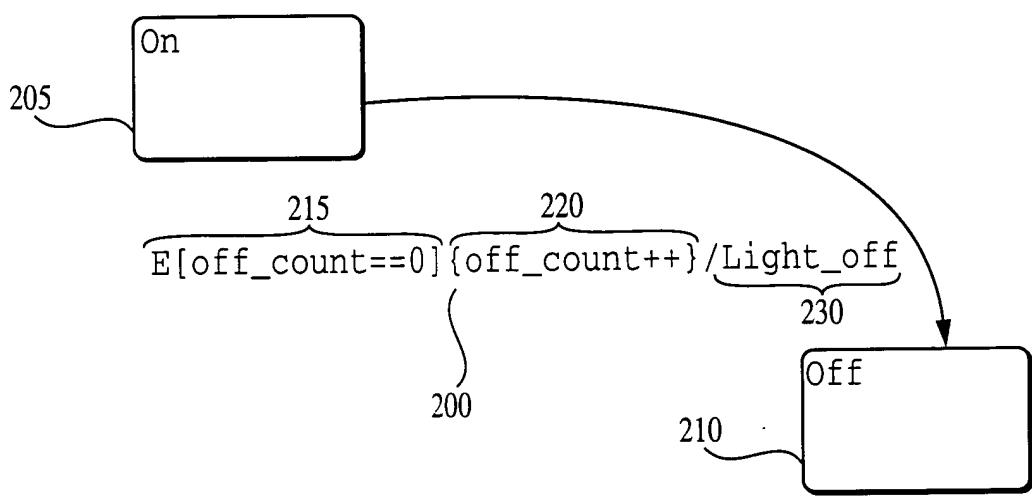


FIG. 2

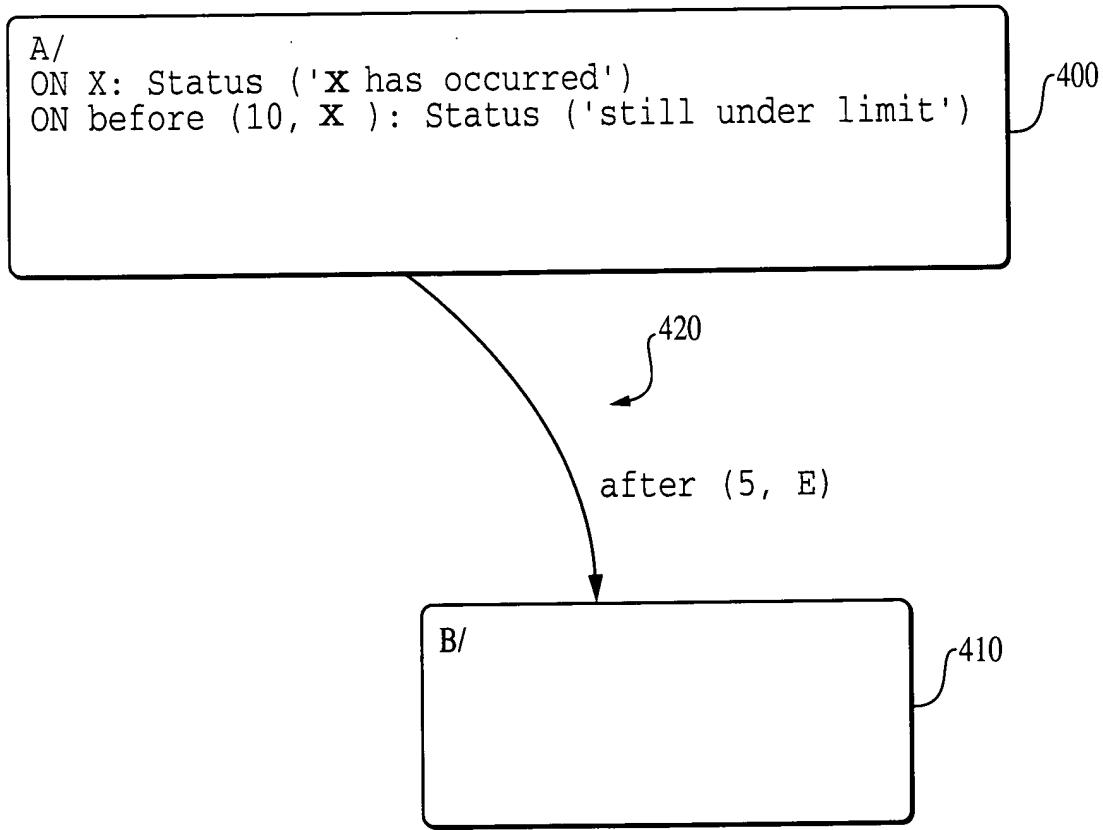


FIG. 3

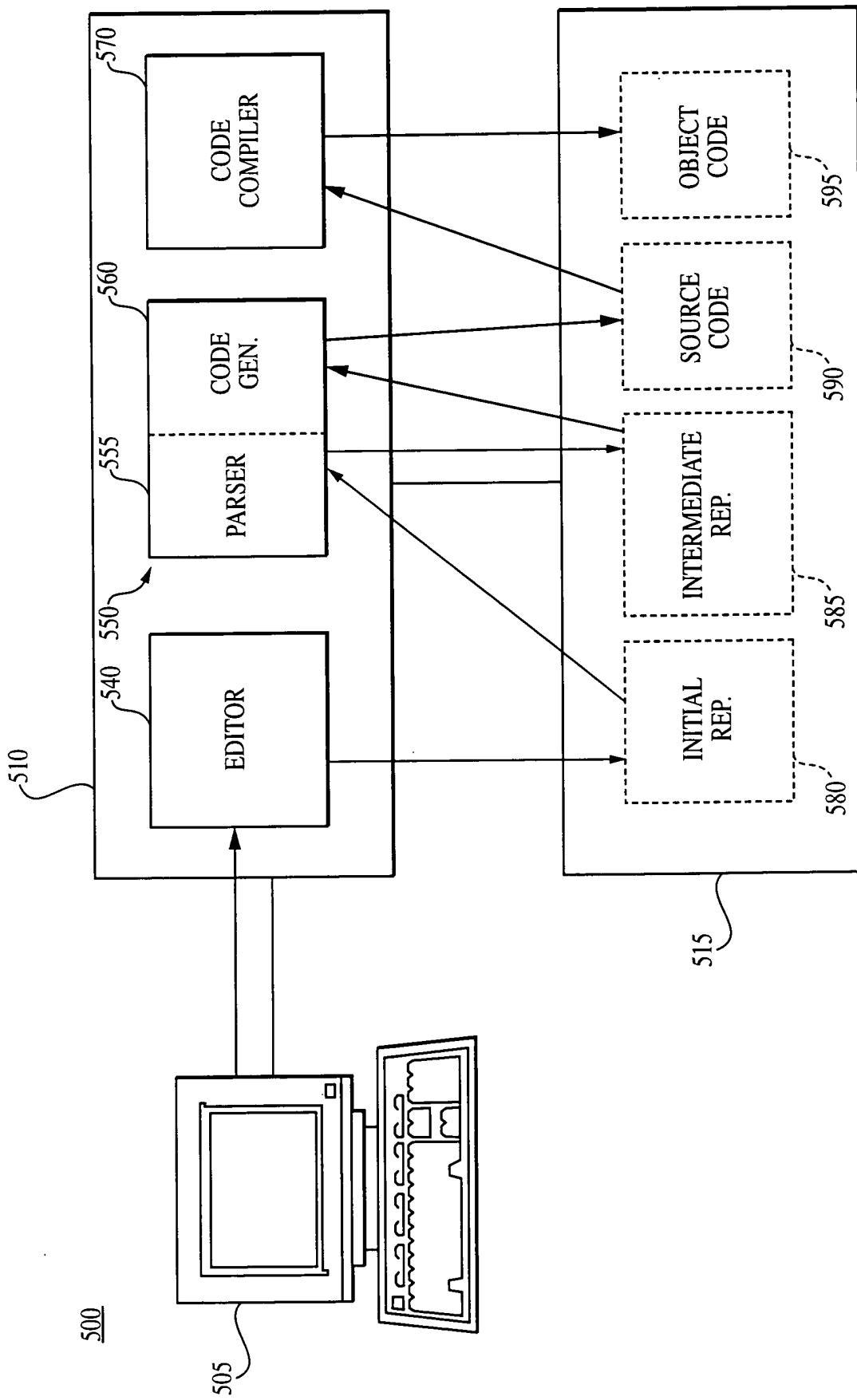


FIG. 4

702280-T6EX4860

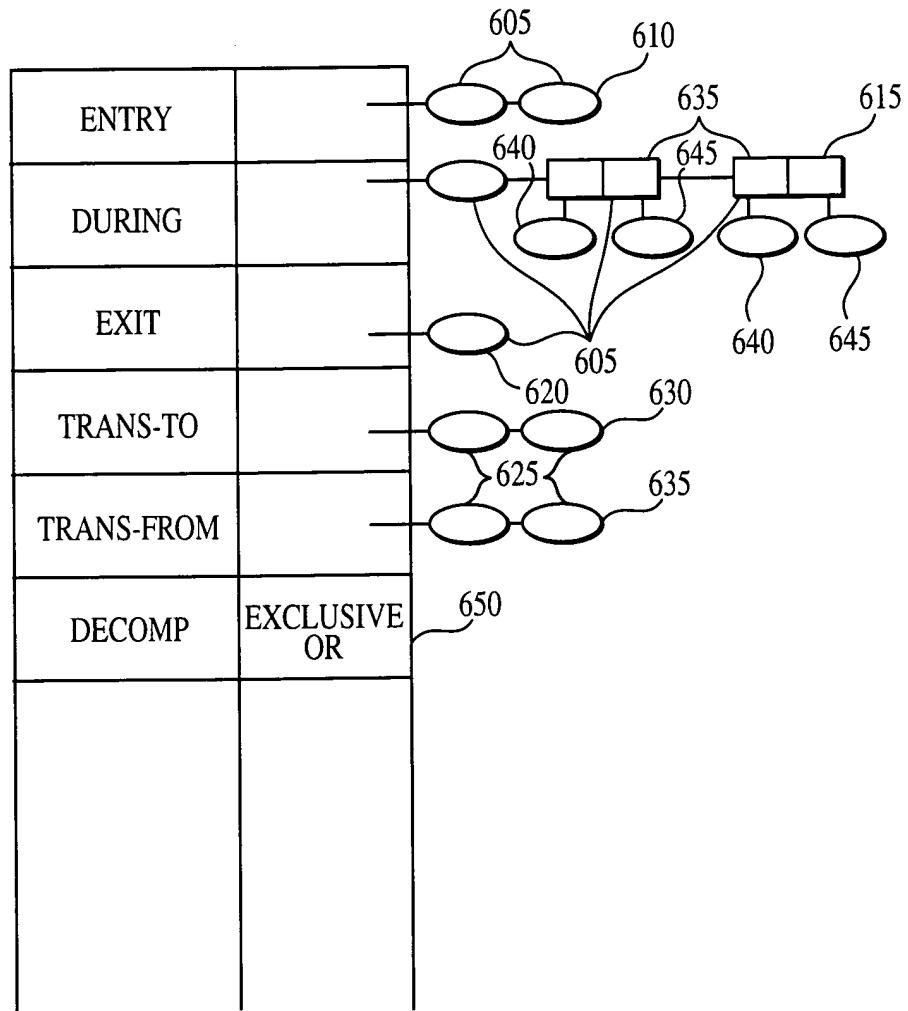


FIG. 5

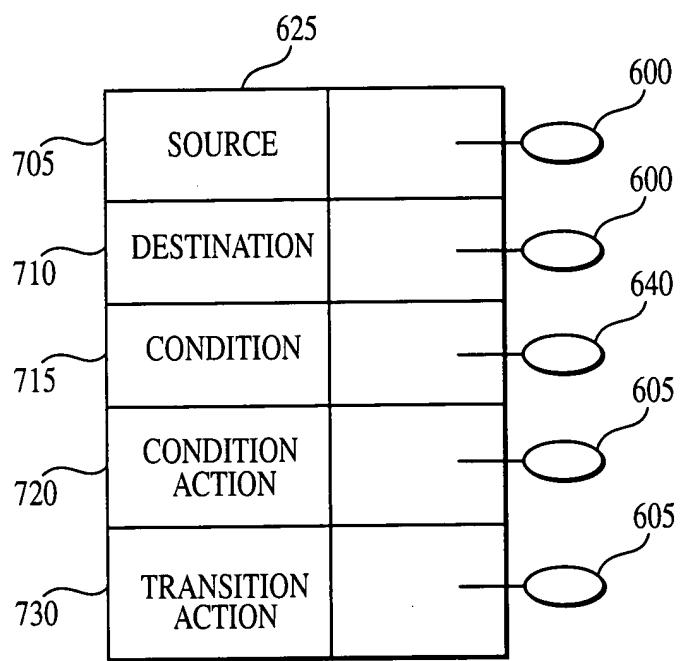


FIG. 6

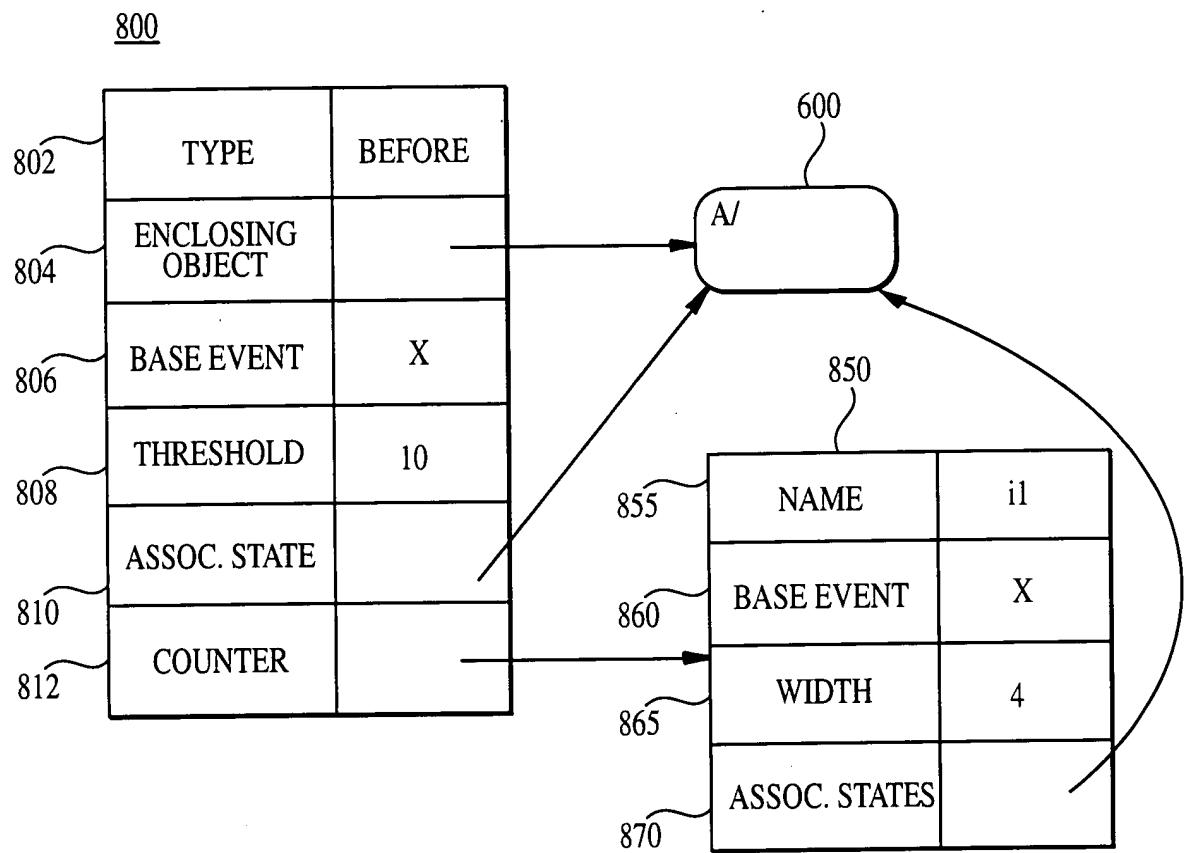


FIG. 7

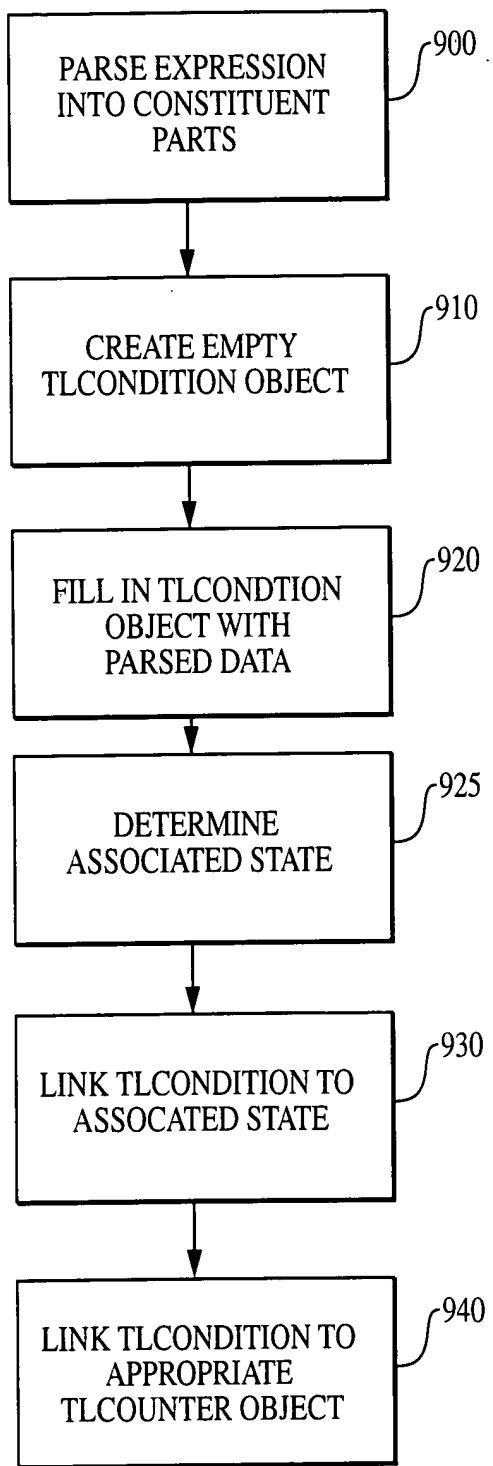


FIG. 8

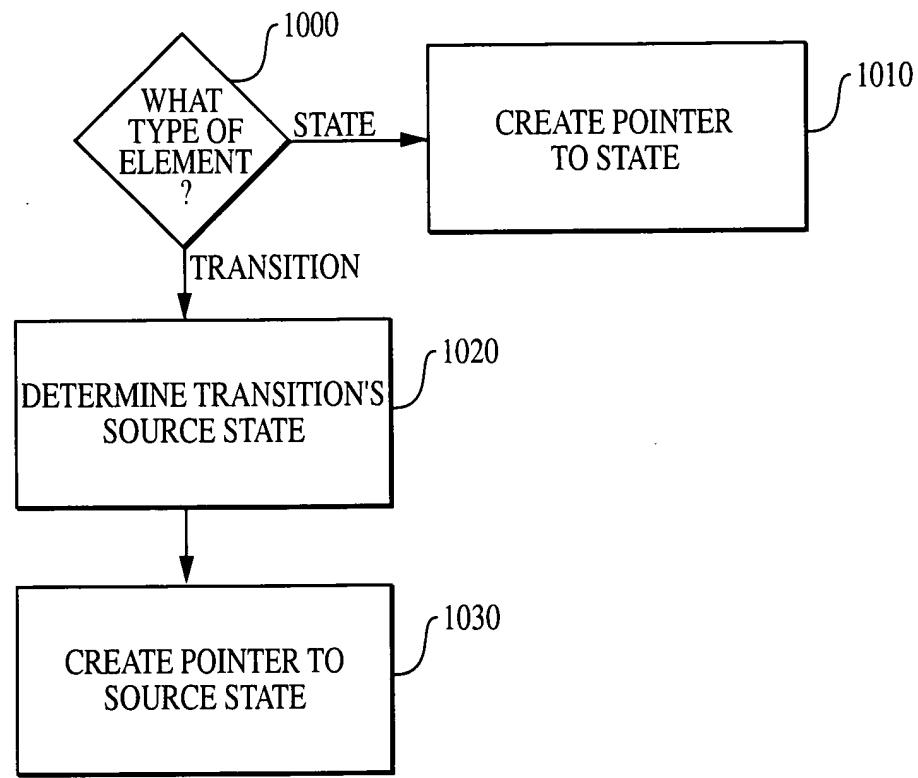


FIG. 9

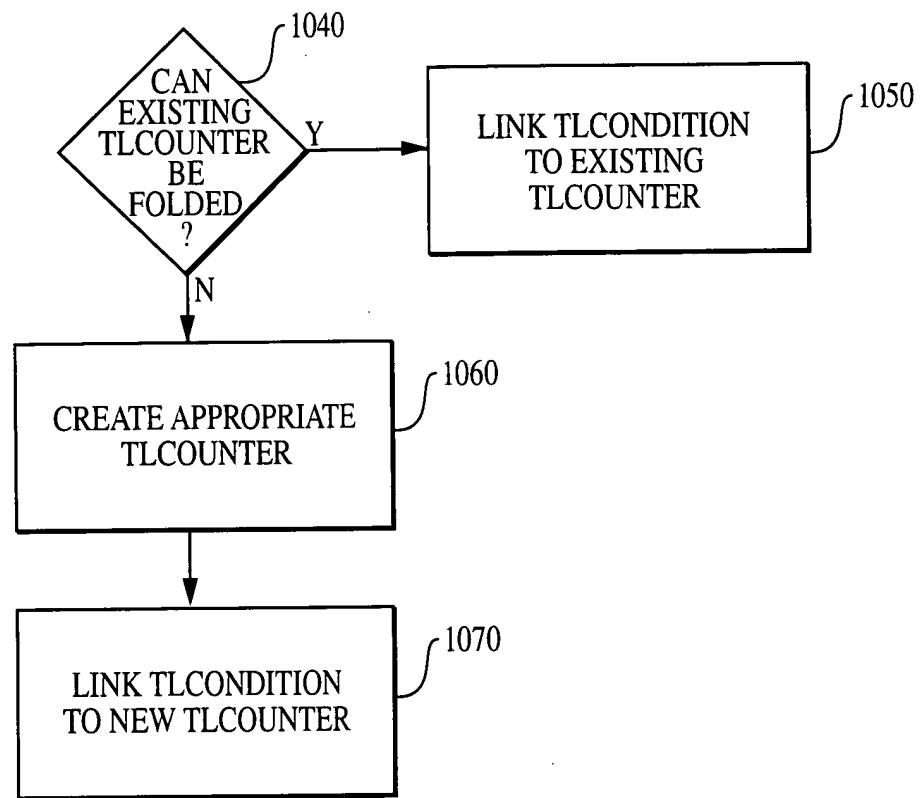


FIG. 10

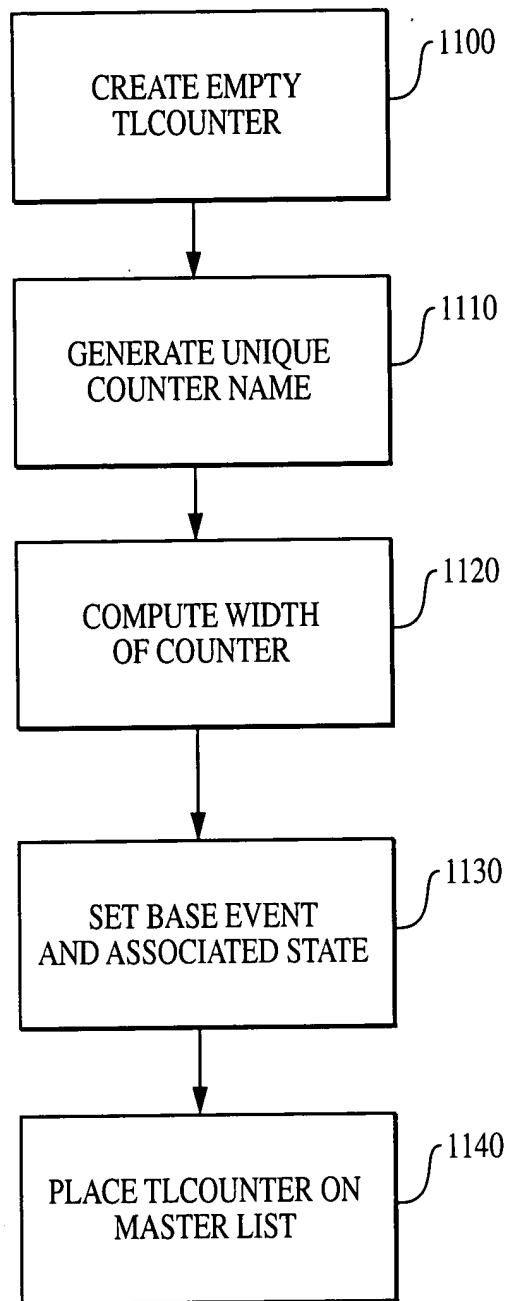


FIG. 11

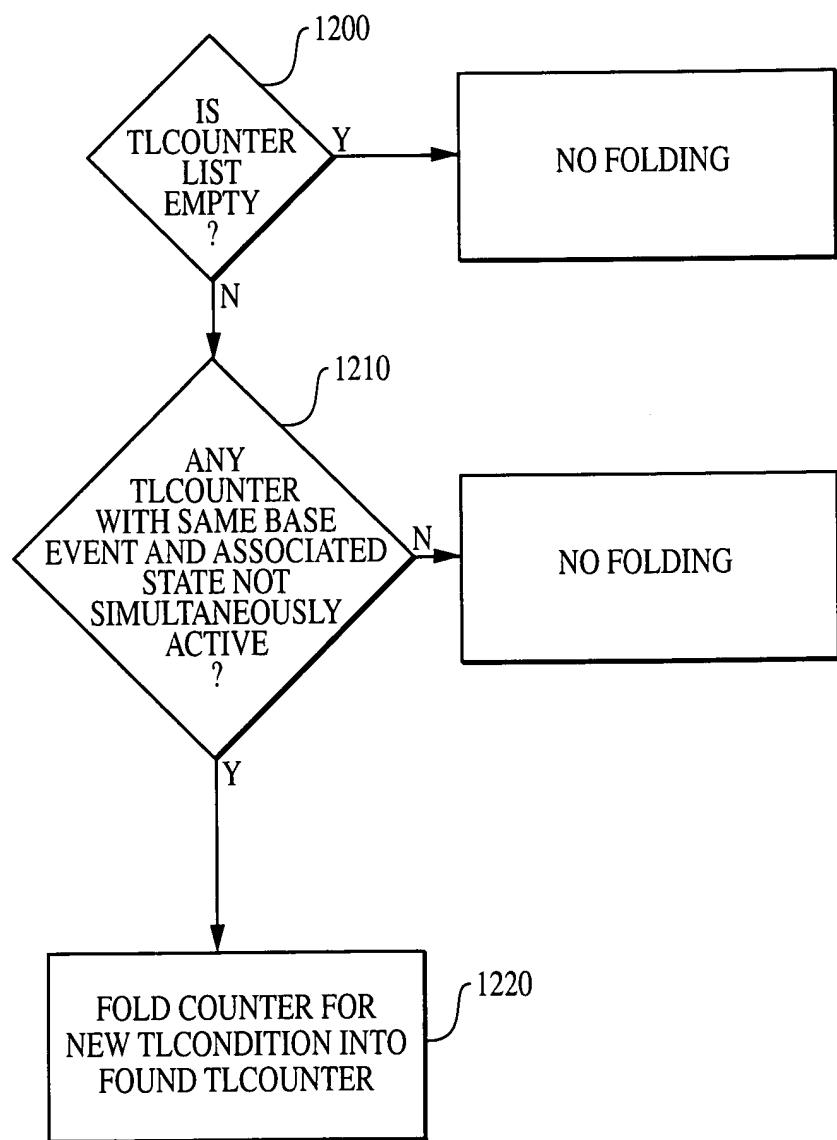


FIG. 12

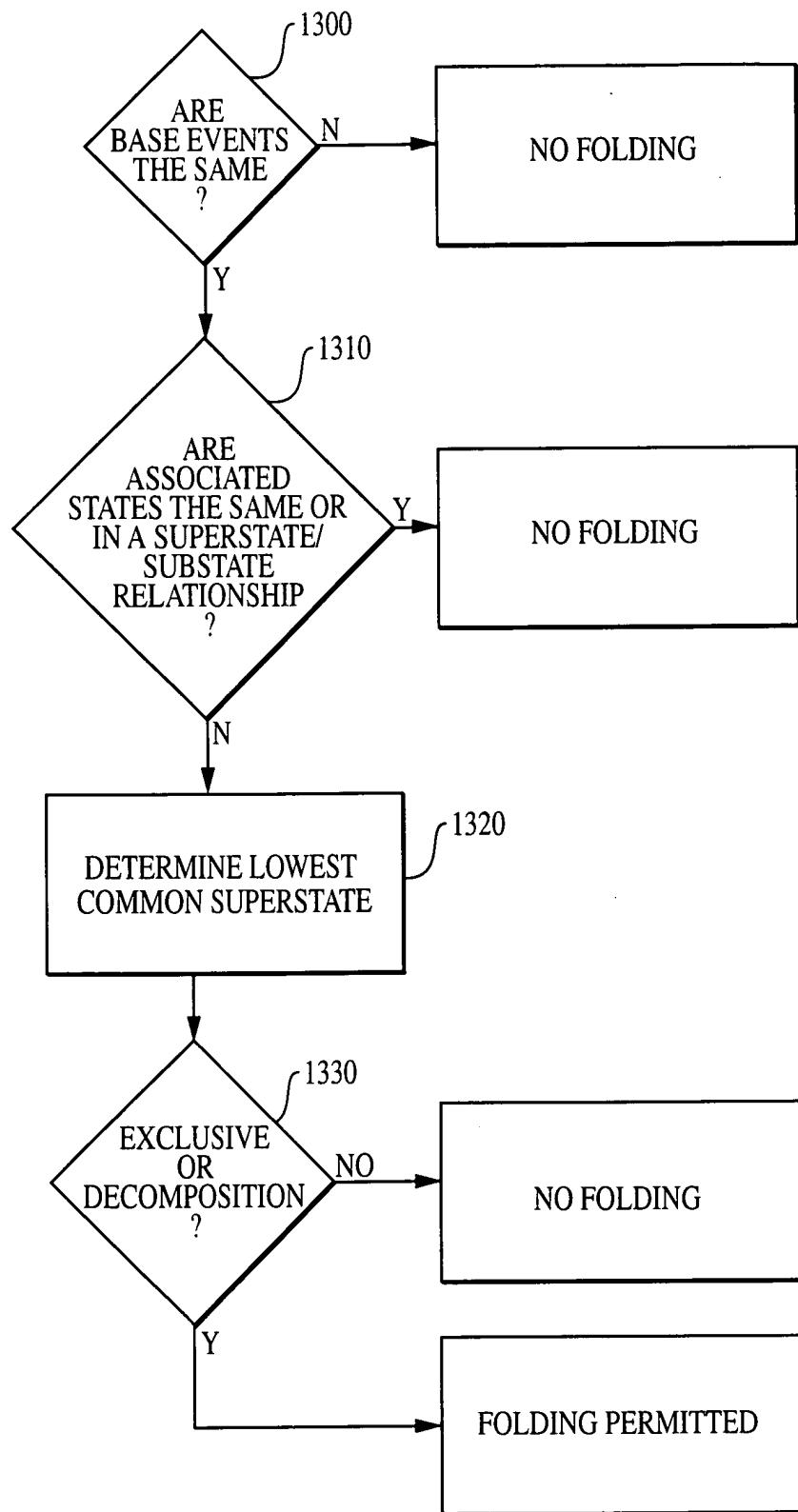


FIG. 13

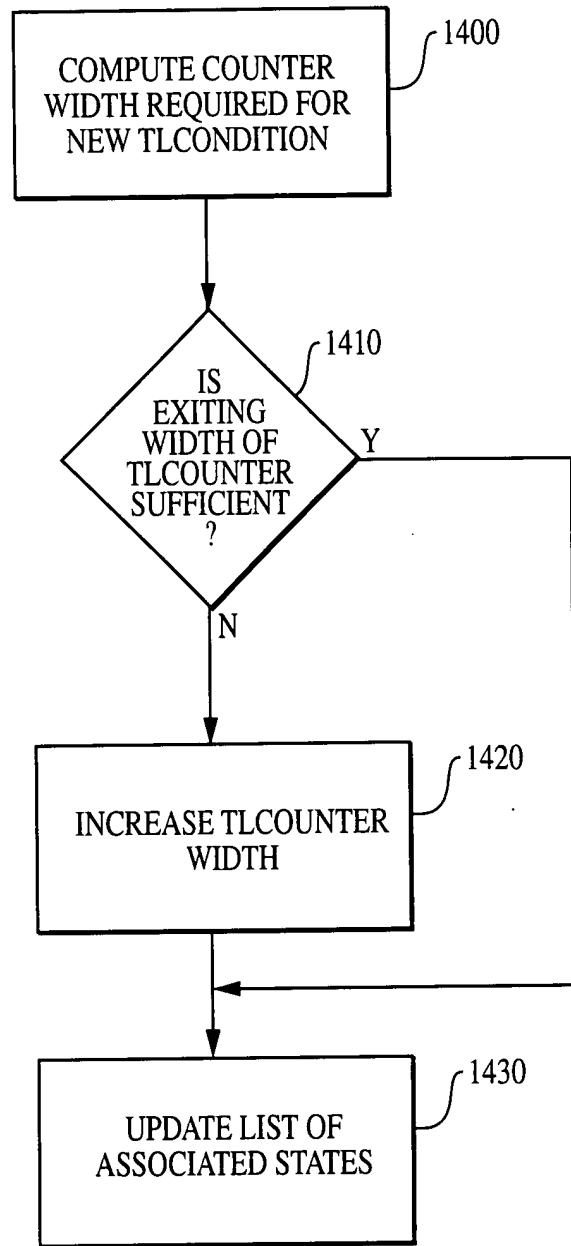


FIG. 14

1002800-150244860

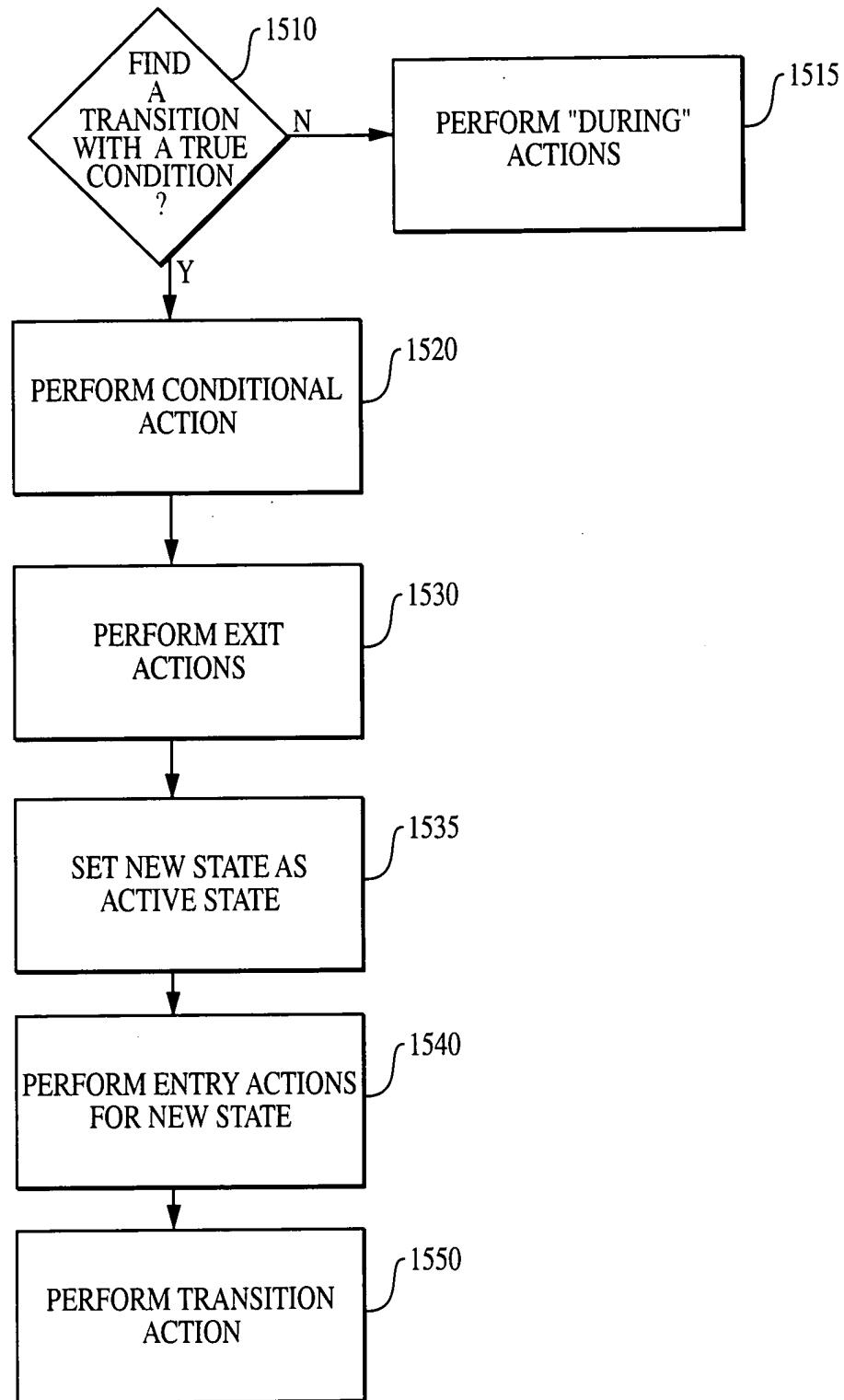


FIG. 15

708280-A47860

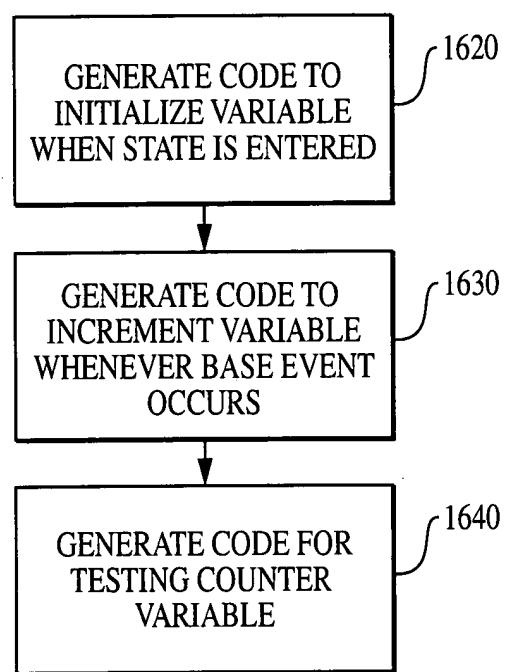


FIG. 16

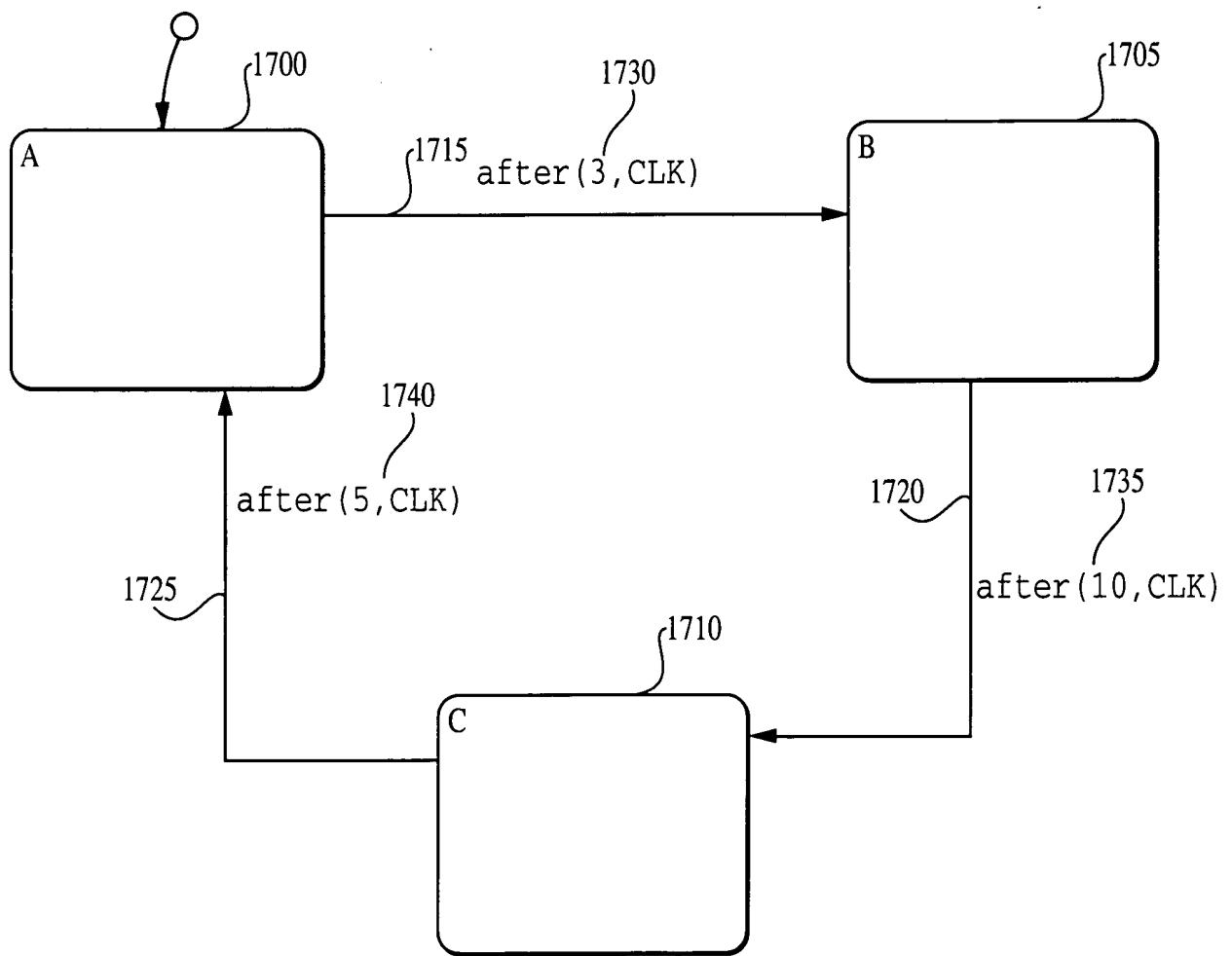


FIG. 17

```

/*
 *
 *
 * Stateflow code generation for chart:
 *     temporal_example/Chart
 *
 * Target Name          : target
 * Model Version       : 1.188
 * Stateflow Version   : 4.0.3.12.00.1.000000
 * Date of code generation : 26-Mar-2001 12:31:13
 *
 */

```

```

#ifndef __chart_h__
#define __chart_h__
typedef struct SFchartCounterStruct {
    unsigned int il : 4;
} SFchartStateStruct;
typedef struct SFchartCounterStruct{
    unsigned int is_active_chart : 1;
    unsigned int is_chart : 2;
} SFchartStateStruct;

```

```

typedef struct SFchart_InstanceStruct {
    SFchartCoutnerStruct Counters;
    SFchartStateStruct State;
} SFchartInstanceStruct;

```

```

void chart(void); }
```

```

/* Input events: */
void broadcast_chart_CLK (void) ; }
```

```

#endif

```

FIG. 18

```

* temporal_example/Chart
*
* Target Name : target
* Model Version : 1.188
* Stateflow Version : 4.0.3.12.00.1.000000
* Date of code generation : 26-Mar-2001 12:31:13
*
*/

```

```

#include "temporal_example_target.h"
#include "chart.h"

#define IN_NO_ACTIVE_CHILD (0)
#define IN_cl_s1_A 1
#define IN_cl_s2_B 2
#define IN_cl_s3_C 3
#define event_CLK 0
static SFchartInstanceStruct chartInstance;
void chart(void);

void chart(void)
{
    {
        /* During: Chart */
        if(_sfEvent_temporal_example_ == event_CLK) {
            if(chartInstance.Counters.il<0xFU) {
                chartInstance.Counters.il++;
            }
        }
        if (chartInstance.State.is_active_chart ==0) {
            /* Entry: Chart */
            chartInstance.State.is_active_chart ==1;
            /* Entry: A */
            chartInstance.State.is_chart = IN_cl_s1_A;
            chartInstance.Counters.il=0;
        } else {
1940 } switch(chartInstance.State.is_chart) {

```

} 1910 } 1920 } 1930 } 1940

FIG. 19A-1

FIG. 19A

FIG.
19A-1

FIG.
19A-2

```
case IN_c1_s1_A:  
    /* During: A */  
    if(_sfEvent_temporal_example_ == event_CLK)  &&  
        (chartInstance.Counters.il >= 3))  {  
        /* Exit: A */  
        /* Entry: B */  
        chartInstance.State.is_chart = IN_c1_s2_B;  
        chartInstance.Counters.il=0;  
    }  
    break;  
case IN_c1_s2_B:  
    /* During: B */  
    if(_sfEvent_temporal_example_ == event_CLK)  &&  
        (chartInstance.Counters.il >= 10))  {  
        /* Exit: B */  
        /* Entry: C */  
        chartInstance.State.is_chart = IN_c1_s3_C;  
        chartInstance.Counters.il=0;  
    }  
}
```

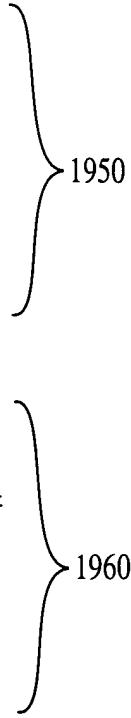


FIG. 19A-2

```
break;
case IN_cl_s3_C:
/*During: C */
if(( _sfEvent_temporal_example_ == event_CLK) &&
(chartInstance.Counters.il >= 5)) {
/* Exit: C */
/* Entry: A */
chartInstance.State.is_chart = IN_cl_s1_A;
chartInstance.Counters.il=0;
}
break;
}
}
}
}

void broadcast_chart_CLK (void)
{
{
int8_T previousEvent;
previousEvent = _sfEvent_temporal_example_;
_sfEvent_temporal_example_ = event_CLK;
chart();
_sfEvent_temporal_example_ = previousEvent;
}
}
```

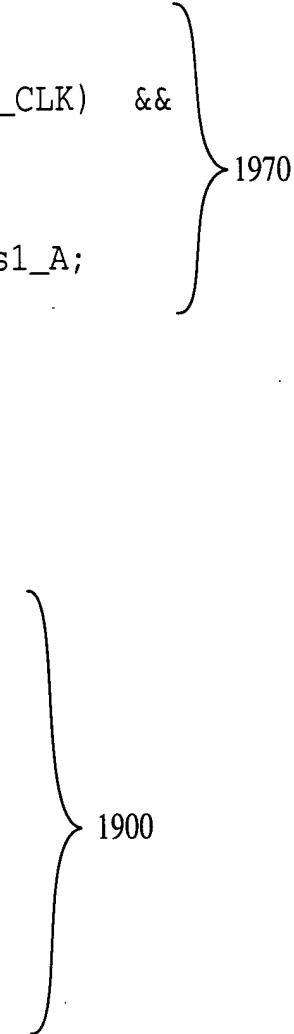


FIG. 19B

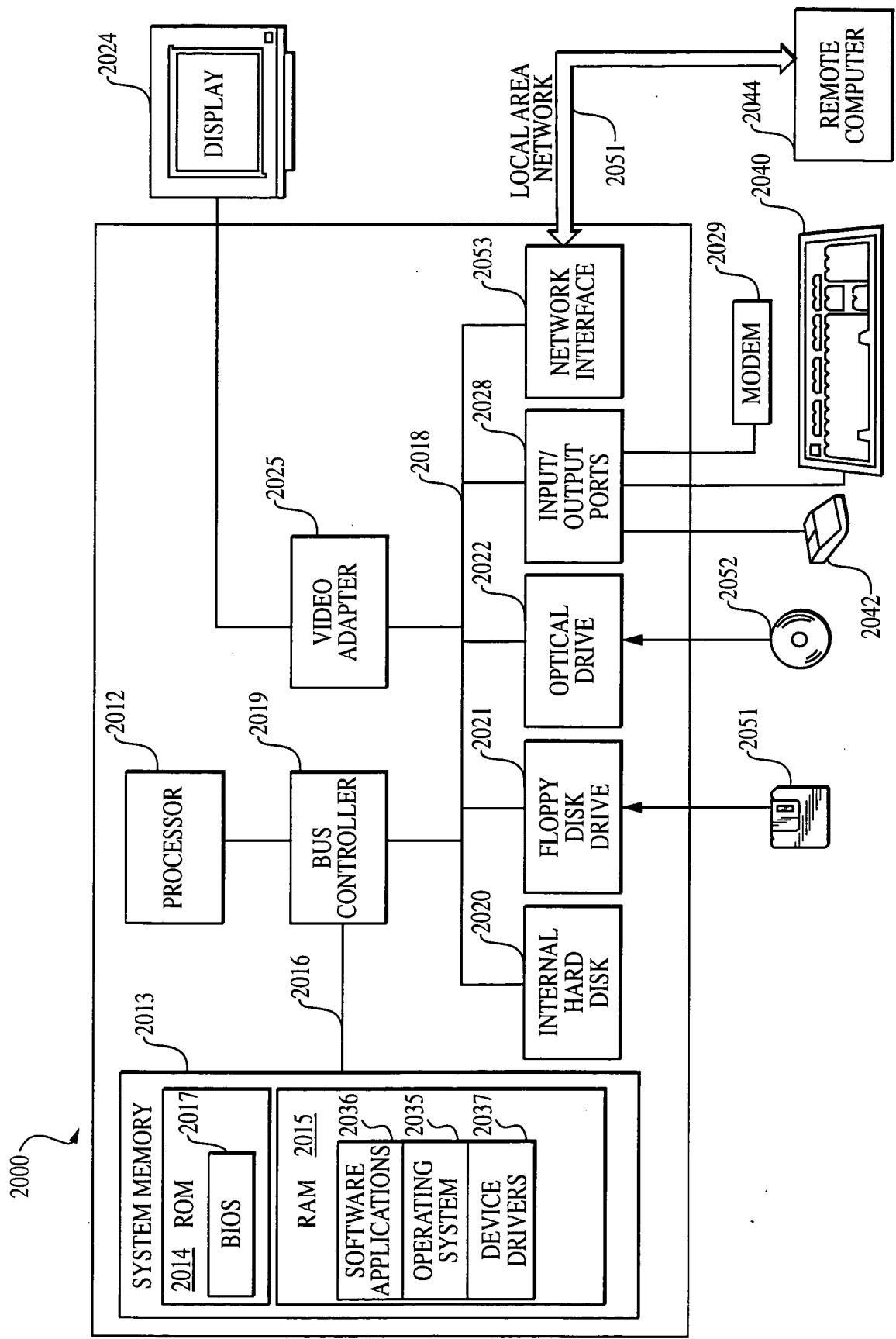


FIG. 20